

Attorney Reference: 123054-06080153  
*Preliminary Amendment*  
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**Amendment to the Abstract of the Disclosure:**

Please insert the Abstract of the Disclosure from the International application as attached on the separate sheet herewith.

## ABSTRACT OF THE DISCLOSURE

Disclosed is a MIMO-OFDM system, wherein the transmitter comprises a serial/parallel converter for converting continuously inputted symbols of the number of subcarriers to  $K$  parallel signals; a signal reproducer for reproducing  $K$  parallel signals by the number of transmit antennas  $L$  an eigenmode generator for generating eigenbeam of the reproduced signals outputted from the signal reproducer at each subcarrier, on the basis of  $N_f$  eigenbeam forming vectors which are fed back long-term and information of a best eigenbeam forming vector at each subcarrier which is fed back short-term, through the feedback device; and a plurality of inverse Fourier converters for receiving the signals outputted from the eigenmode generator and generating an OFDM symbol.